Amendments to the Specification:

Please amend the paragraph at page 34, line 7 of the Specification to read as follows:

Recombinant human MBL (Natimmune A/S) was used.

Please amend the series of paragraphs beginning at page 6, line 1 and ending at page 25, line 12 to read as follows

Collectins

- 1: Q9NPY3 (SEQ ID NO: 1)
 Complement component Clq receptor precursor (Complement component 1, q
 subcomponent, receptor 1) (ClqRp) (ClqR(p)) (Clq/MBL/SPA receptor) (CD93
 antigen) (CDw93)
 gi|21759074|sp|Q9NPY3|CD93 HUMAN[21759074]
- 2: BAC05523 (SEQ ID NO: 2) collectin placenta 1 [Mus musculus] gi|21901969|dbj|BAC05523.1|[21901969]
- 3: AAM34743 (SEQ ID NO: 3)
 46-kDa collectin precursor [Bos taurus]
 gi|21105687|gb|AAM34743.1|AF509590 1[21105687]
- 4: AAM34742 (SEQ ID NO: 4)
 46-kDa collectin precursor [Bos taurus]
 qi|21105685|qb|AAM34742.1|AF509589 1[21105685]
- 5: XP 139613 (SEQ ID NO: 5)

similar to collectin sub-family member 10; collectin liver 1; collectin 34 [Mus musculus] gi|20903807|ref|XP_139613.1|[20903807]

6: XP_123211 (SEQ ID NO: 6) similar to collectin sub-family member 12 [Mus musculus] gi|20876566|ref|XP_123211.1|[20876566]

7: NP_571645 (SEQ ID NO: 7)
mannose binding-like lectin [Danio rerio]
gi|18858997|ref|NP 571645.1|[18858997]

8: NP_569057 (SEQ ID NO: 8) collectin sub-family member 12, isoform I; scavenger receptor with C-type lectin; collectin placenta 1 [Homo sapiens] gi|18641360|ref|NP_569057.1|[18641360]

9: NP_110408 (SEQ ID NO: 9) collectin sub-family member 12, isoform II; scavenger receptor with C-type lectin; collectin placenta 1 [Homo sapiens] gi|18641358|ref|NP 110408.2|[18641358]

10: NP_569716 (SEQ ID NO: 10) collectin sub-family member 12 [Mus musculus] gi|18485494|ref|NP_569716.1|[18485494]

11: AAL61856 (SEQ ID NO: 11)
43kDa collectin precursor [Bos taurus]
gi|18252111|gb|AAL61856.1|[18252111]

12: AAL61855 (SEQ ID NO: 12)
43kDa collectin precursor [Bos taurus]
gi|18252109|gb|AAL61855.1|[18252109]

13: BAB22581 (SEQ ID NO: 13) data source:SPTR, source key:Q9Y6Z7, evidence:ISS~homolog to COLLECTIN

34~putative [Mus musculus]
gi|12833584|dbj|BAB22581.1|[12833584]

14: NP_034905 (SEQ ID NO: 14)
mannose binding lectin, liver (A) [Mus musculus]
gi|6754654|ref|NP_034905.1|[6754654]

15: NP_034906 (SEQ ID NO: 15)
mannose binding lectin, serum (C) [Mus musculus]
gi|6754656|ref|NP 034906.1|[6754656]

16: NP_006429 (SEQ ID NO: 16) collectin sub-family member 10; collectin liver 1; collectin 34 [Homo sapiens] gi|5453619|ref|NP 006429.1|[5453619]

17: BAB72147 (SEQ ID NO: 17)
collectin placenta 1 [Homo sapiens]
gi|17026101|dbj|BAB72147.1|[17026101]

18: AAF63470 (SEQ ID NO: 18) mannose binding-like lectin precursor [Carassius auratus] gi|7542474|gb|AAF63470.1|AF227739 1[7542474]

19: AAF63469 (SEQ ID NO: 19)
mannose binding-like lectin precursor [Danio rerio]
gi|7542472|gb|AAF63469.1|AF227738 1[7542472]

20: AAF63468 (SEQ ID NO: 20) mannose binding-like lectin precursor [Cyprinus carpio] gi|7542470|gb|AAF63468.1|AF227737 1[7542470]

21: AAK97540 (SEQ ID NO: 21) surfactant protein A precursor [Gallus gallus] gi|15420996|gb|AAK97540.1|AF411083_1[15420996]

22: LNMSMC (SEQ ID NO: 22)
mannose-binding lectin C precursor - mouse
gi|7428747|pir||LNMSMC[7428747]

23: LNMSMA (SEQ ID NO: 23)
mannose-binding lectin A precursor - mouse
gi|625320|pir||LNMSMA[625320]

24: JN0450 (SEQ ID NO: 24) conglutinin precursor - bovine gi|346501|pir||JN0450[346501]

25: A57250 (SEQ ID NO: 25)
mannan-binding protein - chicken (fragment)
gi|1362725|pir||A57250[1362725]

26: A53570 (SEQ ID NO: 26) collectin-43 - bovine gi|1083017|pir||A53570[1083017]

27: AAF28384 (SEQ ID NO: 27)
lung surfactant protein A [Sus scrofa]
gi|6782434|gb|AAF28384.1|AF133668 1[6782434]

28: AAF22145 (SEQ ID NO: 28)
lung surfactant protein D precursor; SPD; SP-D; CP4 [Sus scrofa]
gi|6760482|gb|AAF22145.2|AF132496 1[6760482]

29: P41317 (SEQ ID NO: 29)
MANNOSE-BINDING PROTEIN C PRECURSOR (MBP-C) (MANNAN-BINDING PROTEIN)
(RA-REACTIVE FACTOR P28A SUBUNIT) (RARF/P28A)
gi|1346477|sp|P41317|MABC MOUSE[1346477]

30: P39039 (SEQ ID NO: 30)
MANNOSE-BINDING PROTEIN A PRECURSOR (MBP-A) (MANNAN-BINDING PROTEIN)
(RA-REACTIVE FACTOR POLYSACCHARIDE-BINDING COMPONENT P28B POLYPEPTIDE) (RARF P28B)
gi|729972|sp|P39039|MABA_MOUSE[729972]

31: P42916 (SEQ ID NO: 31)
COLLECTIN-43 (CL-43)
gi|1168967|sp|P42916|CL43 BOVIN[1168967]

32: CAB56155 (SEQ ID NO: 32)
DMBT1/8kb.2 protein [Homo sapiens]
qi|5912464|emb|CAB56155.1|[5912464]

33: BAA81747 (SEQ ID NO: 33) collectin 34 [Homo sapiens] gi|5162875|dbj|BAA81747.1|[5162875]

34: AAB94071 (SEQ ID NO: 34) mannan-binding lectin; collectin [Gallus gallus] gi|2736145|gb|AAB94071.1|[2736145]

35: AAB36019 (SEQ ID NO: 35)
mannan-binding protein, MBP=lectin {N-terminal} [chickens, serum, Peptide
Partial, 30 aa] [Gallus gallus]
gi|1311692|gb|AAB36019.1|[1311692]

36: AAB27504 (SEQ ID NO: 36) conglutinin (N) {N-terminal} [cattle, Peptide Partial, 60 aa] [Bos taurus] gi|386660|gb|AAB27504.1|[386660]

37: CAA53511 (SEQ ID NO: 37) collectin-43 [Bos taurus] gi|499385|emb|CAA53511.1|[499385]

38: AAA82010 (SEQ ID NO: 38)
mannose-binding protein C [Mus musculus]
gi|773288|gb|AAA82010.1|[773288]

39: AAA82009 (SEQ ID NO: 39)
mannose-binding protein A [Mus musculus]
gi|773280|gb|AAA82009.1|[773280]

Lung surfactant protein

- 1: 1KMRA (SEQ ID NO: 40)
- Chain A, Solution Nmr Structure Of Surfactant Protein B (11-25) (Sp-B11-25)
- gi|22219056|pdb|1KMR|A[22219056]
- 2: P50404 (SEQ ID NO: 41)

Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D)

gi|1709879|sp|P50404|PSPD MOUSE[1709879]

3: P06908 (SEQ ID NO: 42)

Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSAP)

gi|1172693|sp|P06908|PSPA CANFA[1172693]

4: P35247 (SEQ ID NO: 43)

Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D)

qi|464486|sp|P35247|PSPD HUMAN[464486]

5: P12842 (SEQ ID NO: 44)

Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSAP)

gi|131413|sp|P12842|PSPA RABIT[131413]

6: NP 033186 (SEQ ID NO: 45)

surfactant associated protein D [Mus musculus]

gi|6677921|ref|NP 033186.1|[6677921]

7: 1B08C (SEQ ID NO: 46)

Chain C, Lung Surfactant Protein D (Sp-D) (Fragment)

gi|6573321|pdb|1B08|C[6573321]

8: 1B08B (SEQ ID NO: 47)

Chain B, Lung Surfactant Protein D (Sp-D) (Fragment)

qi | 6573320 | pdb | 1B08 | B [6573320]

9: 1808A (SEQ ID NO: 48)
Chain A, Lung Surfactant Protein D (Sp-D) (Fragment)
gi|6573319|pdb|1808|A[6573319]

10: NP_060049 (SEQ ID NO: 49)
deleted in malignant brain tumors 1 isoform c precursor [Homo sapiens]
gi|8923740|ref|NP 060049.1|[8923740]

11: NP_015568 (SEQ ID NO: 50) deleted in malignant brain tumors 1 isoform b precursor [Homo sapiens] gi|6633801|ref|NP_015568.1|[6633801]

12: NP_004397 (SEQ ID NO: 51) deleted in malignant brain tumors 1 isoform a precursor [Homo sapiens] gi|4758170|ref|NP_004397.1|[4758170]

13: LNBOC1 (SEQ ID NO: 52)
pulmonary surfactant protein C - bovine
qi|7428752|pir||LNBOC1[7428752]

14: LNDGC1 (SEQ ID NO: 53)
pulmonary surfactant protein C - dog
gi|7428750|pir||LNDGC1[7428750]

15: JN0450 (SEQ ID NO: 54) conglutinin precursor - bovine gi|346501|pir||JN0450[346501]

16: A45225 (SEQ ID NO: 55)
pulmonary surfactant protein D precursor - human gi|346375|pir||A45225[346375]

17: LNHUC (SEQ ID NO: 56)
pulmonary surfactant protein C precursor, long splice form human
gi|71983|pir||LNHUC[71983]

18: LNDGPS (SEQ ID NO: 57) pulmonary surfactant protein A precursor - dog gi|71970|pir||LNDGPS[71970] 19: LNHUPS (SEQ ID NO: 58) pulmonary surfactant protein A precursor (genomic clone) gi|71967|pir||LNHUPS[71967] 20: A53570 (SEQ ID NO: 59) collectin-43 - bovine gi|1083017|pir||A53570[1083017] 21: S33603 (SEQ ID NO: 60) surfactant protein D - bovine gi|423283|pir||S33603[423283] 22: AAF28384 (SEQ ID NO: 61) lung surfactant protein A [Sus scrofa] gi|6782434|gb|AAF28384.1|AF133668 1[6782434] 23: AAF22145 (SEQ ID NO: 62) lung surfactant protein D precursor; SPD; SP-D; CP4 [Sus scrofa] gi|6760482|gb|AAF22145.2|AF132496 1[6760482] 24: P15783 (SEQ ID NO: 63) PULMONARY SURFACTANT-ASSOCIATED PROTEIN C (SP-C) (PULMONARY SURFACTANT-ASSOCIATED PROTEOLIPID SPL(VAL)) gi|131422|sp|P15783|PSPC BOVIN[131422] 25: P35246 (SEQ ID NO: 64) PULMONARY SURFACTANT-ASSOCIATED PROTEIN D PRECURSOR (SP-D) qi|464485|sp|P35246|PSPD BOVIN[464485]

9

26: P42916 (SEQ ID NO: 65)

gi|1168967|sp|P42916|CL43 BOVIN[1168967]

COLLECTIN-43 (CL-43)

27: CAB56155 (SEQ ID NO: 66)
DMBT1/8kb.2 protein [Homo sapiens]
gi|5912464|emb|CAB56155.1|[5912464]

28: AAD49696 (SEQ ID NO: 67)
gp-340 variant protein [Homo sapiens]
gi|5733598|gb|AAD49696.1|AF159456 1[5733598]

29: AAD31380 (SEQ ID NO: 68) surfactant protein D precursor [Mus musculus] gi|4877556|gb|AAD31380.1|AF047742 1[4877556]

30: B61249 (SEQ ID NO: 69)
pulmonary surfactant protein C - dog
gi|539712|pir||B61249[539712]

31: S00609 (SEQ ID NO: 70)
pulmonary surfactant protein C - bovine
gi|89749|pir||S00609[89749]

32: A43628 (SEQ ID NO: 71)
pulmonary surfactant protein A - human (fragments)
gi|280854|pir||A43628[280854]

33: AAB48076 (SEQ ID NO: 72)
Surfactant protein B (SP-B) [Oryctolagus cuniculus]
gi|1850933|gb|AAB48076.1|[1850933]

34: 1901176A (SEQ ID NO: 73) surfactant protein A gi|382753|prf||1901176A[382753]

35: CAA53510 (SEQ ID NO: 74)
lung surfactant protein D [Bos taurus]
gi|415939|emb|CAA53510.1|[415939]

36: CAA53511 (SEQ ID NO: 75)

collectin-43 [Bos taurus]
qi|499385|emb|CAA53511.1|[499385]

37: CAA46152 (SEQ ID NO: 76)
lung surfactant protein D [Homo sapiens]
gi|34767|emb|CAA46152.1|[34767]

38: AAA92788 (SEQ ID NO: 77)
lung surfactant protein C [Rattus norvegicus]
gi|595282|gb|AAA92788.1|[595282]

39: AAA31468 (SEQ ID NO: 78) surfactant protein A [Oryctolagus cuniculus] qi|431446|qb|AAA31468.1|[431446]

Mannose binding lectin

- 1: Q9NPY3 (SEQ ID NO: 79)
 Complement component C1q receptor precursor (Complement component 1, q
 subcomponent, receptor 1) (C1qRp) (C1qR(p)) (C1q/MBL/SPA receptor) (CD93
 antigen) (CDw93)
 gi|21759074|sp|Q9NPY3|CD93 HUMAN[21759074]
- 2: 089103 (SEQ ID NO: 80)
 Complement component C1q receptor precursor (Complement component 1, q
 subcomponent, receptor 1) (C1qRp) (C1qR(p)) (C1q/MBL/SPA receptor) (CD93
 antigen) (Cell surface antigen AA4) (Lymphocyte antigen 68)
 gi|21541998|sp|089103|CD93_MOUSE[21541998]
- 3: P09871 (SEQ ID NO: 81)
 Complement Cls component precursor (Cl esterase)
 gi|115205|sp|P09871|ClS HUMAN[115205]
- 4: NP_036204 (SEQ ID NO: 82) complement component 1, q subcomponent, receptor 1; complement component C1q receptor [Homo sapiens]

gi|6912282|ref|NP 036204.1|[6912282]

5: NP_000233 (SEQ ID NO: 83)
soluble mannose-binding lectin precursor; mannose-binding lectin; mannose binding protein; Mannose-binding lectin 2, soluble (opsonic defect) [Homo sapiens]
gi|4557739|ref|NP_000233.1|[4557739]

6: AAM94381 (SEQ ID NO: 84)
lectin precursor [Zephyranthes candida]
gi|22212748|gb|AAM94381.1|AF527385 1[22212748]

7: AAH21762 (SEQ ID NO: 85)
mannose binding lectin, liver (A) [Mus musculus]
gi|18256010|gb|AAH21762.1|[18256010]

8: AAH10760 (SEQ ID NO: 86)
Similar to mannose binding lectin, serum (C) [Mus musculus]
gi|14789670|gb|AAH10760.1|[14789670]

9: P11226 (SEQ ID NO: 87)
Mannose-binding protein C precursor (MBP-C) (MBP1) (Mannan-binding protein)
(Mannose-binding lectin)
gi|126676|sp|P11226|MABC HUMAN[126676]

10: NP_034897 (SEQ ID NO: 88) mannan-binding lectin serine protease 2 [Mus musculus] gi|6754642|ref|NP_034897.1|[6754642]

11: Q9ET61 (SEQ ID NO: 89)
Complement component Clq receptor precursor (Complement component 1, q
subcomponent, receptor 1) (ClqRp) (ClqR(p)) (Clq/MBL/SPA receptor) (CD93
antigen) (Cell surface antigen AA4)
gi|21541989|sp|Q9ET61|CD93_RAT[21541989]

- 12: NP_006601 (SEQ ID NO: 90)
 mannan-binding lectin serine protease 2, isoform 1 precursor;
 MBL-associated
 plasma protein of 19 kD; small MBL-associated protein [Homo sapiens]
 gi|21264363|ref|NP 006601.2|[21264363]
- 13: NP_631947 (SEQ ID NO: 91)
 mannan-binding lectin serine protease 2, isoform 2 precursor;
 MBL-associated
 plasma protein of 19 kD; small MBL-associated protein [Homo sapiens]
 gi|21264361|ref|NP 631947.1|[21264361]
- 14: NP_624302 (SEQ ID NO: 92)
 mannan-binding lectin serine protease 1, isoform 2, precursor;
 protease, serine,
 5 (mannose-binding protein-associated); manan-binding lectin
 serine protease-1;
 Ra-reactive factor serine protease p100 [Homo sapiens]
 gi|21264359|ref|NP_624302.1|[21264359]
- 15: NP_001870 (SEQ ID NO: 93)
 mannan-binding lectin serine protease 1, isoform 1, precursor;
 protease, serine,
 5 (mannose-binding protein-associated); manan-binding lectin
 serine protease-1;
 Ra-reactive factor serine protease p100 [Homo sapiens]
 gi|21264357|ref|NP_001870.3|[21264357]
- 16: XP_122683 (SEQ ID NO: 94) similar to mannose binding lectin, liver (A) [Mus musculus] $gi|20872845|ref|XP_122683.1|[20872845]$
- 17: AAM21196 (SEQ ID NO: 95)
 C-type mannose-binding lectin [Oncorhynchus mykiss]
 gi|20385163|gb|AAM21196.1|AF363271 1[20385163]
- 18: AAD45377 (SEQ ID NO: 96)
 mannose-binding lectin [Sus scrofa]
 gi|5566370|gb|AAD45377.1|AF164576 1[5566370]

In re of:

19: NP_034905 (SEQ ID NO: 97)
mannose binding lectin, liver (A) [Mus musculus]
gi|6754654|ref|NP_034905.1|[6754654]

20: NP_034906 (SEQ ID NO: 98) mannose binding lectin, serum (C) [Mus musculus] gi|6754656|ref|NP 034906.1|[6754656]

21: AAL14428 (SEQ ID NO: 99) dendritic cell-specific ICAM-3 grabbing nonintegrin [Macaca nemestrina] gi|16118455|gb|AAL14428.1|AF343727_1[16118455]

22: AAF63470 (SEQ ID NO: 100) mannose binding-like lectin precursor [Carassius auratus] gi|7542474|gb|AAF63470.1|AF227739 1[7542474]

23: AAF63469 (SEQ ID NO: 101) mannose binding-like lectin precursor [Danio rerio] qi|7542472|qb|AAF63469.1|AF227738 1[7542472]

24: AAF63468 (SEQ ID NO: 102) mannose binding-like lectin precursor [Cyprinus carpio] gi|7542470|gb|AAF63468.1|AF227737 1[7542470]

25: AAF21018 (SEQ ID NO: 103)
mannose-binding lectin 2 [Sus scrofa]
gi|6644342|gb|AAF21018.1|AF208528 1[6644342]

26: AAK30298 (SEQ ID NO: 104)
mannose-binding lectin precursor protein [Gallus gallus]
qi|13561409|gb|AAK30298.1|[13561409]

27: LNMSMC (SEQ ID NO: 22)
mannose-binding lectin C precursor - mouse
gi|7428747|pir||LNMSMC[7428747]

28: LNMSMA (SEQ ID NO: 23)

mannose-binding lectin A precursor - mouse
gi|625320|pir||LNMSMA[625320]

- 29: LNRTMA (SEQ ID NO: 105)
 mannose-binding lectin A precursor rat
 gi|71975|pir||LNRTMA[71975]
- 30: LNRTMC (SEQ ID NO: 106)
 mannose-binding lectin C precursor rat
 gi|71974|pir||LNRTMC[71974]
- 31: LNHUMC (SEQ ID NO: 107)
 mannose-binding lectin precursor human
 gi|71973|pir||LNHUMC[71973]
- 32: BAA86864 (SEQ ID NO: 108) complement C1s [Homo sapiens] gi|6407558|dbj|BAA86864.1|[6407558]
- 33: P49329 (SEQ ID NO: 109)
 MANNOSE-SPECIFIC LECTIN (AGGLUTININ)
 gi|13/46426|sp|P49329|LEC ALOAR[1346426]
- 34: CAB56124 (SEQ ID NO: 110)
 mannose-binding lectin [Homo sapiens]
 qi|5911809|emb|CAB56124.1|[5911809]
- 35: CAB56123 (SEQ ID NO: 111)
 mannose-binding lectin [Homo sapiens]
 gi|5911807|emb|CAB56123.1|[5911807]
- 36: CAB56122 (SEQ ID NO: 112)
 mannose-binding lectin [Homo sapiens]
 gi|5911798|emb|CAB56122.1|[5911798]
- 37: CAB56121 (SEQ ID NO: 113)
 mannose-binding lectin [Homo sapiens]
 qi|5911796|emb|CAB56121.1|[5911796]

38: CAB56045 (SEQ ID NO: 114)
mannose-binding lectin [Homo sapiens]
gi|5911794|emb|CAB56045.1|[5911794]

39: CAB56120 (SEQ ID NO: 115)
mannose-binding lectin [Homo sapiens]
gi|5911792|emb|CAB56120.1|[5911792]

40: CAB56044 (SEQ ID NO: 116)
mannose-binding lectin [Homo sapiens]
gi|5911790|emb|CAB56044.1|[5911790]

41: AAB53110 (SEQ ID NO: 117) ClqR(p) [Homo sapiens] gi|2052498|gb|AAB53110.1|[2052498]

The collectin preferably comprises at least 10, such as at least 12, for example at least 15, such as at least 20, for example at least 25, such as at least 30, for example at least 35, such as at least 40, for example at least 50 consecutive amino acid residues of the collectin or of a variant or a homologue to said collectin. Such a variant or homologue is preferably at least 70%, such as 80%, for example 90%, such as 95% identical to the collectin.

Ficolins

The ficolin according to the invention may be L-ficolin, H-ficolin or M-ficolin or variants or homologues thereof. In a preferred embodiment the ficolin is L-ficolin.

In a particular preferred embodiment the ficolin has one of the sequences listed below with reference to their database

and accession No. For each of the sequences the Cystein rich region and the collagen-like region is described.

NP_003656. ficolin 3 precursor; ficolin (collagen/fibrinogen domain-containing) 3 (Hakata antigen) [Homo sapiens] [gi:4504331] (SEQ ID NO: 118)

90..299 /region_name="pfam00147, fibrinogen_C, Fibrinogen beta and gamma chains, C-terminal globular domain"
90..299 /region_name="smart00186, FBG, Fibrinogen-related domains (FReDs); Domain present at the C-termini of fibrinogen beta and gamma chains, and a variety of fibrinogen-related proteins, including tenascin and Drosophila scabrous"

1 mdllwilpsl wllllggpac lktqehpscp gpreleaskv vllpscpgap gspgekgapg

- 61 pqgppgppgk mgpkgepgdp vnllrcqegp rncrellsqg atlsgwyhlc lpegralpvf
- 121 cdmdtegggw lvfqrrqdgs vdffrswssy ragfgnqese fwlgnenlhq ltlqgnwelr
- 181 veledfngnr tfahyatfrl lgevdhyqla lgkfsegtag dslslhsgrp fttydadhds
- 241 snsncavivh gawwyascyr snlngryavs daaahkygid wasgrgvghp yrrvrmmlr

XP_116792. similar to Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) (L-Ficolin) [Homo sapiens] [gi:20477458] (SEQ ID NO: 119)

91..168 /region_name="pfam00147, fibrinogen_C, Fibrinogen beta and gamma chains, C-terminal globular domain"
91..168 /region_name="smart00186, FBG, Fibrinogen-related domains (FReDs); Domain present at the C-termini of fibrinogen beta and gamma chains, and a variety of fibrinogen-related proteins, including tenascin and Drosophila scabrous"

1 mgpallalsf lwtmaltedt cpamleyval nsepgmaskn psrrhglsll vvdqgpgarg

61 vrtdqgpsga dpgslelhge cpifpseqvi lthhnnypfs tedqdndrda encavhyqga

121 wwyaschlsh lngvylggar dsftnginwk sgkgnnysyk vsemkvrpt

O00602. Ficolin 1 precursor (Collagen/fibrinogen domain-containing protein 1) (Ficolin-A) (Ficolin A) (M-Ficolin) [gi:20455484] (SEQ_ID_NO: 120)

```
1..29 /gene="FCN1" /region name="Signal" /note="POTENTIAL."
30..326 /gene="FCN1" /region name="Mature chain"
/note="FICOLIN 1."
55..93 /gene="FCN1" /region name="Domain" /note="COLLAGEN-
LIKE."
133 /gene="FCN1" /region name="Conflict" /note="T -> N (IN
REF. 1)."
144..290 /gene="FCN1" /region name="Domain" /note="FIBRINOGEN
C-TERMINAL."
287 /gene="FCN1" /region name="Conflict" /note="N -> S (IN
REF. 1)."
305 /gene="FCN1" /site type="glycosylation" /note="N-LINKED
(GLCNAC...) (POTENTIAL)."
    1 melsgatmar glavllvlfl hiknlpaqaa dtcpevkvvg legsdkltil
rgcpglpgap
  61 gpkgeagvig ergerglpga pgkagpvgpk gdrgekgmrg ekgdagqsqs
catgprnckd
121 lldrgyflsg whtiylpdcr pltvlcdmdt dgggwtvfgr rmdgsvdfyr
dwaaykqqfq
181 sqlgefwlgn dnihaltagg sselrvdlvd fegnhqfaky ksfkvadeae
kyklvlgafv
241 ggsagnsltg hnnnffstkd qdndvsssnc aekfqgawwy adchasnlng
lylmgphesy
301 anginwsaak gykysykvse mkvrpa //
075636. Ficolin 3 precursor (Collagen/fibrinogen domain-
containing protein 3) (Collagen/fibrinogen domain-containing
lectin 3 P35) (Hakata antigen) [gi:13124185]
(SEQ ID NO: 121)
1..21 /gene="FCN3" /region name="Signal" /note="POTENTIAL."
22..299 /gene="FCN3" /region name="Mature chain"
/note="FICOLIN 3."
48..80 /gene="FCN3" /region name="Domain" /note="COLLAGEN-
LIKE."
50 /gene="FCN3" /site type="hydroxylation"
53 /gene="FCN3" /site type="hydroxylation"
59 /gene="FCN3" /site_type="hydroxylation"
65 /gene="FCN3" /site type="hydroxylation"
68 /gene="FCN3" /site type="hydroxylation"
77 /gene="FCN3" /site type="hydroxylation"
119..265 /gene="FCN3" /region name="Domain" /note="FIBRINOGEN
C-TERMINAL."
189 /gene="FCN3" /site_type="glycosylation" /note="N-LINKED
(GLCNAC...) (POTENTIAL)."
```

- 1 mdllwilpsl wllllggpac lktqehpscp gpreleaskv vllpscpgap gspgekgapg
- 61 pqgppgppgk mgpkgepgdp vnllrcqegp rncrellsqg atlsgwyhlc lpegralpvf
- 121 cdmdtegggw lvfqrrqdgs vdffrswssy ragfgnqese fwlgnenlhq ltlqgnwelr
- 181 veledfngnr tfahyatfrl lgevdhyqla lgkfsegtag dslslhsgrp fttydadhds
- 241 snsncavivh gawwyascyr snlngryavs daaahkygid wasgrgvghp yrrvrmmlr
- XP_130120. similar to Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) [Mus musculus] [gi:20823464] (SEQ ID NO: 122)
- 59..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 59..89 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db_xref="CDD:pfam01391"
- 60..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 60..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 60..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 60..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 60..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 61..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 61..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db_xref="CDD:pfam01391"
- 61..95 /region_name="Collagen triple helix repeat (20 copies)" /note="Collagen" /db xref="CDD:pfam01391"
- 103..312 /region_name="Fibrinogen beta and gamma chains, C-terminal globular domain" /note="fibrinogen_C" /db_xref="CDD:pfam00147"
- 103..312 /region_name="Fibrinogen-related domains (FReDs)" /note="FBG" /db xref="CDD:smart00186"
- 1 malgsaalfv ltltvhaagt cpelkvldle gykqltilqg cpglpgaagp kgeagakgdr
- 61 gesglpgipg kegptgpkgn qgekgirgek gdsgpsqsca tgprtckell tqghfltgwy
- 121 tiylpdcrpl tvlcdmdtdg ggwtvfqrrl dgsvdffrdw tsykrgfgsq lgefwlgndn

181 ihalttggts elrydlsdfe gkhdfakyss fgiggeaeky klilgnflgg gagdsltphn 241 nrlfstkdqd ndgstsscam gyhqawwysq chtsnlngly lrgphksyan gvnwkswrgy 301 nysckvsemk vrli NP 056654. ficolin 2 isoform d precursor; ficolin (collagen/fibrinogen domain-containing lectin) 2 (hucolin); ficolin (collagen/fibrinogen domain-containing lectin) 2; hucolin [Homo sapiens] [gi:8051590] (SEQ ID NO: 123) 39..95 /region name="collagen-like domain" 1 meldravgvl gaatlllsfl gmawalgaad tcpevkmvgl egsdkltilr gcpglpgapg 61 dkgeagtngk rgergppgpp gkagppgpng apgepqpclt gd NP 056653. ficolin 2 isoform c precursor; ficolin (collagen/fibrinogen domain-containing lectin) 2 (hucolin); ficolin (collagen/fibrinogen domain-containing lectin) 2; hucolin [Homo sapiens] [gi:8051588] (SEQ ID NO: 124) 39..95 /region name="collagen-like domain" 102..143 /region name="Fibrinogen beta and gamma chains, Cterminal globular domain" /note="fibrinogen C" /db xref="CDD:pfam00147" 102..143 /region name="Fibrinogen-related domains (FReDs)" /note="FBG" /db xref="CDD:smart00186" 1 meldravgvl gaatlllsfl gmawalqaad tcpevkmvgl egsdkltilr gcpglpgapg 61 dkgeagtngk rgergppgpp gkagppgpng apgepqpclt gprtckdlld rghflsgwht 121 iylpdcrplt vlcdmdtdgg gwtvsvglgr gggpgspggg aahlvgehtl efsillvgds 181 qr NP 056652. ficolin 2 isoform b precursor; ficolin (collagen/fibrinogen domain-containing lectin) 2 (hucolin); ficolin (collagen/fibrinogen domain-containing lectin) 2; hucolin [Homo sapiens] [qi:8051586] (SEQ ID NO: 125) sig peptide 1..25 mat peptide 26..275 60..275 /region name="FBG domain" /note="fibrinogen beta/gamma homology" 64..275 /region name="Fibrinogen-related domains (FReDs)" /note="FBG" /db_xref="CDD:smart00186"

64..274 /region_name="Fibrinogen beta and gamma chains, C-terminal globular domain" /note="fibrinogen_C" /db_xref="CDD:pfam00147"

1 meldravgvl gaatlllsfl gmawalqaad tcpgergppg ppgkagppgp ngapgepqpc

61 ltgprtckdl ldrghflsgw htiylpdcrp ltvlcdmdtd gggwtvfqrr vdgsvdfyrd

121 watykqgfgs rlgefwlgnd nihaltaqgt selrvdlvdf ednyqfakyr sfkvadeaek

181 ynlvlgafve gsagdsltfh nnqsfstkdq dndlntgnca vmfqgawwyk nchvsnlngr

241 ylrgthgsfa nginwksgkg ynysykvsem kvrpa

NP_001994. ficolin 1 precursor; ficolin (collagen/fibrinogen domain-containing) 1 [Homo sapiens] [gi:8051584] (SEQ ID NO: 126)

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sig peptide 1..27
mat peptide 28..326
40..108 /region name="collagen-like domain"
50..105 /region name="Collagen triple helix repeat (20
copies) " /note="Collagen" /db xref="CDD:pfam01391"
51..107 /region name="Collagen triple helix repeat (20
copies) " /note="Collagen" /db xref="CDD:pfam01391"
52..106 /region name="Collagen triple helix repeat (20
copies) " /note="Collagen" /db xref="CDD:pfam01391"
115..326 /region name="FBG domain" /note="fibrinogen
beta/gamma homology" 115..326 /region name="Fibrinogen-related
domains (FReDs)" /note="FBG" /db xref="CDD:smart00186"
115..325 /region name="Fibrinogen beta and gamma chains, C-
terminal globular domain" /note="fibrinogen C"
/db xref="CDD:pfam00147" variation 315
/db xref="dbSNP:1128428" variation 316
/db xref="dbSNP:1128429" variation 317
/db xref="dbSNP:1128430"
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1 melsgatmar glavllvlfl hiknlpaqaa dtcpevkvvg legsdkltil rgcpglpgap

61 gpkgeagvig ergerglpga pgkagpvgpk gdrgekgmrg ekgdagqsqs catgprnckd

121 lldrgyflsg whtiylpdcr pltvlcdmdt dgggwtvfqr rmdgsvdfyr dwaaykqgfg

181 sqlgefwlgn dnihaltaqg sselrvdlvd fegnhqfaky ksfkvadeae kyklvlgafv

241 ggsagnsltg hnnnffstkd qdndvsssnc aekfqgawwy adchasnlng lylmgphesy

301 anginwsaak qykysykvse mkvrpa

-1

NP_004099. ficolin 2 isoform a precursor; ficolin (collagen/fibrinogen domain-containing lectin) 2 (hucolin); ficolin (collagen/fibrinogen domain-containing lectin) 2; hucolin [Homo sapiens] [gi:4758348] (SEQ ID NO: 127)

sig peptide 1..25
mat peptide 26..313

39..95 /region name="collagen-like domain"

98..313 /region_name="FBG domain" /note="fibrinogen beta/gamma homology" 102..313 /region_name="Fibrinogen-related domains (FReDs)" /note="FBG" /db_xref="CDD:smart00186"

102..312 /region_name="Fibrinogen beta and gamma chains, Cterminal globular domain" /note="fibrinogen_C"
/db_xref="CDD:pfam00147

1 meldravgvl gaatlllsfl gmawalqaad tcpevkmvgl egsdkltilr gcpglpgapg

- 61 dkgeagtngk rgergppgpp gkagppgpng apgepqpclt gprtckdlld rghflsgwht
- 121 iylpdcrplt vlcdmdtdgg gwtvfqrrvd gsvdfyrdwa tykqgfgsrl gefwlgndni
- 181 haltaqgtse lrvdlvdfed nyqfakyrsf kvadeaekyn lvlgafvegs agdsltfhnn
- 241 qsfstkdqdn dlntgncavm fqgawwyknc hvsnlngryl rgthgsfang inwksgkgyn
- 301 ysykvsemkv rpa

Q9WTS8. Ficolin 1 precursor (Collagen/fibrinogen domain-containing protein 1) (Ficolin-A) (Ficolin A) (M-Ficolin) [gi:13124116] (SEQ ID NO: 128)

- 1..22 /gene="FCN1" /region_name="Signal" /note="POTENTIAL."
- 23..335 /gene="FCN1" /region_name="Mature chain"

/note="FICOLIN 1."

- 50..88 /gene="FCN1" /region_name="Domain" /note="COLLAGEN-LIKE."
- 152..298 /gene="FCN1" /region_name="Domain" /note="FIBRINOGEN C-TERMINAL."
- 271 /gene="FCN1" /site_type="glycosylation" /note="N-LINKED (GLCNAC...) (POTENTIAL)."

1 mwwpmlwafp vllclcssqa lgqesgacpd vkivglgaqd kvaviqscps fpqppqpkqe

- 61 pgspagrger glqgspgkmg ppgskgepgt mgppgvkgek gergtasplg qkelgdalcr
- 121 rgprsckdll trgifltgwy tiylpdcrpl tvlcdmdvdg ggwtvfqrrv dgsinfyrdw

- 181 dsykrgfgnl gtefwlgndy lhlltangnq elrvdlrefq gqtsfakyss fqvsgeqeky
- 241 kltlgqfleg tagdsltkhn nmafsthdqd ndtnggknca alfhgawwyh dchqsnlngr
- 301 ylpgshesya dginwlsgrg hrysykvaem kiras
- Q15485. Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) (L-Ficolin) [gi:13124203] (SEQ ID NO: 129)
- 1..25 /gene="FCN2" /region_name="Signal" /note="POTENTIAL."
 26..313 /gene="FCN2" /region_name="Mature chain"
 /note="FICOLIN 2."
- 54..92 /gene="FCN2" /region_name="Domain" /note="COLLAGEN-LIKE."
- 131..277 /gene="FCN2" /region_name="Domain" /note="FIBRINOGEN C-TERMINAL."
- 240 /gene="FCN2" /site_type="glycosylation" /note="N-LINKED (GLCNAC...) (POTENTIAL)."
- 300 /gene="FCN2" /site_type="glycosylation" /note="N-LINKED (GLCNAC...) (POTENTIAL)."
- 1 meldravgvl gaatlllsfl gmawalqaad tcpevkmvgl egsdkltilr gcpglpgapg
- 61 dkgeagtngk rgergppgpp gkagppgpng apgepqpclt gprtckdlld rghflsgwht
- 121 iylpdcrplt vlcdmdtdgg gwtvfqrrvd gsvdfyrdwa tykqgfgsrl gefwlgndni
- 181 haltaqgtse lrvdlvdfed nyqfakyrsf kvadeaekyn lvlgafvegs agdsltfhnn
- 241 qsfstkdqdn dlntgncavm fqgawwyknc hvsnlngryl rgthgsfang inwksgkgyn
- 301 ysykvsemkv rpa
- O70497. Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) [gi:13124181] (SEQ ID NO: 130)
- <1..15 /gene="FCN2" /region_name="Signal" /note="POTENTIAL." 16..>306 /gene="FCN2" /region name="Mature chain"

/note="FICOLIN 2."

- 41..79 /gene="FCN2" /region_name="Domain" /note="COLLAGEN-LIKE."
- 130..276 /gene="FCN2" /region_name="Domain" /note="FIBRINOGEN C-TERMINAL."
- 299 /gene="FCN2" /site_type="glycosylation" /note="N-LINKED
 (GLCNAC...) (POTENTIAL)."

- 1 lgsaalfvlt ltvhaagtcp elkvldlegy kqltilqgcp glpgaagpkg eagakgdrge
- 61 sglpgipgke gptgpkgnqg ekgirgekgd sgpsqscatg prtckelltq ghfltgwyti
- 121 ylpdcrpmtv lcdmdtdggg wtvfqrrldg svdffrdwts ykrgfgsqlg efwlgndnih
- 181 alttqgtsel rvdlsdfegk hdfakyssfq iqgeaekykl ilgnflggga gdsltphnnr
- 241 lfstkdqdnd gstsscamgy hgawwysqch tsnlnglylr gphksyangv nwkswrgyny
- 301 sckvse
- O70165. Ficolin 1 precursor (Collagen/fibrinogen domain-containing protein 1) (Ficolin-A) (Ficolin A) (M-Ficolin) [gi:13124179] (SEQ ID NO: 131)
- 1..22 /gene="FCN1" /region_name="Signal" /note="POTENTIAL."
 23..334 /gene="FCN1" /region_name="Mature chain"
 /note="FICOLIN 1."
- 50..88 /gene="FCN1" /region_name="Domain" /note="COLLAGEN-LIKE."
- 152..298 /gene="FCN1" /region_name="Domain" /note="FIBRINOGEN C-TERMINAL."
- 261 /gene="FCN1" /site_type="glycosylation" /note="N-LINKED (GLCNAC...) (POTENTIAL)."
- 1 mqwptlwafs gllclcpsqa lgqergacpd vkvvglgaqd kvvviqscpg fpgppgpkge
- 61 pgspagrger gfqgspgkmg pagskgepgt mgppgvkgek gdtgaapslg ekelgdtlcq
- 121 rgprsckdll trgifltgwy tihlpdcrpl tvlcdmdvdg ggwtvfqrrv dgsidffrdw
- 181 dsykrgfgnl gtefwlgndy lhlltangnq elrvdlqdfq gkgsyakyss fqvseeqeky
- 241 kltlgqfleg tagdsltkhn nmsftthdqd ndansmncaa lfhgawwyhn chqsnlngry
- 301 lsgshesyad ginwgtgqgh hysykvaemk iras
- P57756. Ficolin 2 precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35) (EBP-37) (Hucolin) [gi:13124114] (SEQ ID NO: 132)
- 1..22 /gene="FCN2" /region_name="Signal" /note="POTENTIAL."
 23..319 /gene="FCN2" /region_name="Mature chain"
 /note="FICOLIN 2."
- 48..86 /gene="FCN2" /region_name="Domain" /note="COLLAGEN-LIKE."

- 137..283 /gene="FCN2" /region_name="Domain" /note="FIBRINOGEN C-TERMINAL."
- 306 /gene="FCN2" /site_type="glycosylation" /note="N-LINKED (GLCNAC...) (POTENTIAL)."
- 1 mvlgsaalfv lslcvteltl haadtcpevk vldlegsnkl tilqgcpglp galgpkgeag
- 61 akgdrgesgl pghpgkagpt gpkgdrgekg vrgekgdtgp sqscatgprt ckelltrgyf
- 121 ltgwytiylp dcrpltvlcd mdtdgggwtv fqrridgtvd ffrdwtsykq gfgsqlgefw
- 181 lgndnihalt tqgtnelrvd ladfdgnhdf akyssfqiqg eaekyklilg nflqqqaqds
- 241 ltsqnnmlfs tkdqdndqgs sncavryhga wwysdchtsn lnglylrglh ksyangvnwk
- 301 swkgynysyk vsemkvrli
- JC5980. ficolin-A precurs mouse [gi:7513652] (SEQ ID NO: 133)
- 1..21 /region_name="domain" /note="signal sequence"
- 50..64 /region name="domain" /note="collagen-like"
- 68..106 /region name="domain" /note="collagen-like"
- 123..334 /region_name="domain" /note="fibrinogen beta/gamma homology #label FBG"
- 1 mqwptlwafs gllclcpsqa lgqergacpd vkvvglgaqd kvvviqscpg fpgppgpkge
- 61 pgspagrger gfqgspgkmg pagskgepgt mgppgvkgek gdtgaapslg ekelgdtlcq
- 121 rgprsckdll trgifltgwy tihlpdcrpl tvlcdmdvdg ggwtvfqrrv dgsidffrdw
- 181 dsykrgfgnl gtefwlgndy lhlltangnq elrvdlqdfq gkgsyakyss fgvseeqeky
- 241 kltlgqfleg tagdsltkhn nmsftthdqd ndansmncaa lfhgawwyhn chqsnlngry
- 301 lsgshesyad ginwgtgqgh hysykvaemk iras
- S61517. ficolin-1 precurs- human [gi:2135116] (SEQ ID NO: 134) 1..326 /note="36K HLA-cross-reactive plasma protein; hucolin, 35K"
- 1..22 /region name="domain" /note="signal sequence"
- 52..108 /region name="region" /note="collagen-like"
- 115..326 /region_name="domain" /note="fibrinogen beta/gamma homology #label FBG"
- 305 /site type="binding" /note="carbohydrate (Asn) (covalent)"
- 1 melsgatmar glavllvlfl hiknlpaqaa dtcpevkvvg legsdkltil rgcpglpgap

- 61 gpkgeagvig ergerglpga pgkagpvgpk gdrgekgmrg ekgdagqsqs catgprnckd
- 121 lldrgyflsg whniylpdcr pltvlcdmdt dgggwtvfqr rmdgsvdfyr dwaaykqgfg
- 181 sqlgefwlgn dnihaltaqg sselrvdlvd fegnhqfaky ksfkvadeae kyklvlgafv
- 241 ggsagnsltg hnnnffstkd qdndvsssnc aekfqgawwy adchasslng lylmgphesy
- 301 anginwsaak gykysykvse mkvrpa
- A47172. transforming growth factor-beta 1-binding protein homolog ficolin-alpha pig [gi:423206] (SEQ ID NO: 135)
- 112..323 /region_name="domain" /note="fibrinogen beta/gamma homology #label FBG"
- 1 mdtrgvaaam rplvllvafl ctaapaldtc pevkvvgleg sdklsilrgc pglpgaagpk
- 61 geagasgpkg gqgppgapge pgppgpkgdr gekgepgpkg esweteqclt gprtckellt
- 121 rghilsgwht iylpdcqplt vlcdmdtdgg gwtvfqrrsd gsvdfyrdwa aykrgfgsql
- 181 gefwlgndhi haltaqgtne lrvdlvdfeg nhqfakyrsf qvadeaekym lvlgafvegn
- 241 agdsltshnn slfttkdqdn dqyasncavl yqgawwynsc hvsnlngryl ggshgsfang
- 301 vnwssgkgyn ysykvsemkf rat
- JC4942. ficolin-1 precursor human [gi:2135117] (SEQ ID NO: 136)
- 1..22 /region name="domain" /note="signal sequence"
- 45..101 /region name="region" /note="collagen-like"
- 108..319 /region_name="domain" /note="fibrinogen beta/gamma homology #label FBG"
- 111..315 /region name="region" /note="fibrinogen-like"
- 298 /site type="binding" /note="carbohydrate (Asn) (covalent)"
- 1 marglavllv lflhiknlpa qaadtcpevk vvglegsdkl tilrgcpglp gapgpkgeag
- 61 vigergergl pgapgkagpv gpkgdrgekg mrgekgdagq sqscatgprn ckdlldrgyf
- 121 lsgwhtiylp dcrpltvlcd mdtdgggwtv fqrrmdgsvd fyrdwaaykq gfgsglgefw
- 181 lgndnihalt aqgsselrvd lvdfegnhqf akyksfkvad eaekyklvlg afvggsagns
- 241 ltghnnnffs tkdqdndvss sncaekfqga wwyadchasn lnglylmgph esyanginws

301 aakgykysyk vsemkvrpa

AAF44911. symbol=BG:DS00929...[gi:7287873] (SEQ ID NO: 137)

- $1\ {\tt mkscffvlfl}\ {\tt wtllfevgqs}\ {\tt sphtcpsgsp}\ {\tt ngihqlmlpe}\ {\tt eepfqvtqck}\ {\tt ttardwiviq}$
- 61 rrldgsvnfn qswfsykdgf gdpngeffig lqklylmtre qphelfiqlk hgpgatvyah
- 121 fddfqvdset elyklervgk ysgtagdslr yhinkrfstf drdndesskn caaehgggww
- 181 fhsclsr